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STATUS OF KNOWLEDGE FOR VIRGINIA FISHERIES

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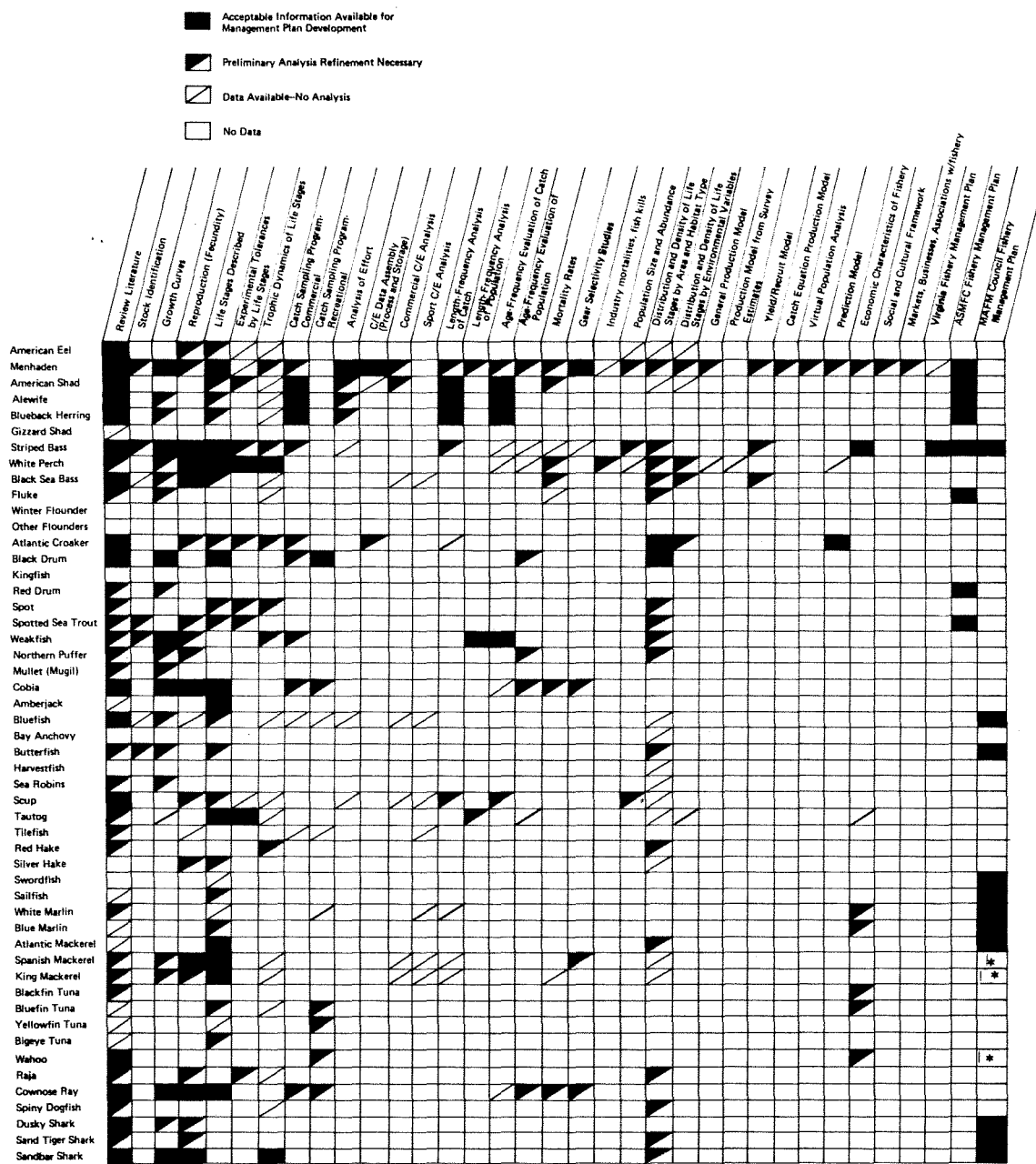
The National Marine Fisheries Service, in 1970, prepared a Program Development Plan for the Marine Monitoring, Assessment, and Prediction Program (MARMAP). This planning document included a matrix of fisheries species and status of knowledge necessary for the development of a Fisheries Management Plan. The Division of Fisheries Science and Services, now the Department of Fisheries, at the Virginia Institute of Marine Science/School of Marine Science developed a similar matrix in 1978 for Virginia's fisheries.

This matrix has served to guide graduate students searching for a thesis or dissertation topic, and to faculty and staff looking for "open" areas of research.

The following matrices for fin, crustacean, and shell fisheries were updated in August-September, 1985, and represent the current status of knowledge for Virginia fisheries.

Several students, staff, and faculty at VIMS assisted with the re-compilation. These include: William DuPaul, Jon Lucy, Roger Mann, Mike Castagna, Jane DiCosimo, Tom Monroe, Mark Chittenden, Dexter Haven, Willard VanEngel, Jack Musick, Brenda Norcross, James Colvocoresses, William Kriete, Joe Loesch, and others. If you feel there are additional boxes to fill please contact me at (804) 642-7321.

STATUS OF KNOWLEDGE FOR VIRGINIA FINFISHERIES



*South Atlantic Fisheries Management Council

STATUS OF KNOWLEDGE FOR VIRGINIA CRUSTACEAN FISHERIES

Acceptable Information Available for Management Plan Development		
Preliminary Analysis Refinement Necessary		
Data Available-No Analysis		
No Data		
American lobster	Review Literature	
	Stock Identification	
Red crab	Growth Curves	
	Reproduction (Fecundity)	
Jonah crab	Life Stages Described	
	Experimental Tolerances by Life Stages	
Rock crab	Trophic Dynamics of Life Stages	
	Catch Sampling Program - Commercial	
Blue crab	Catch Sampling Program - Recreational	
	Analysis of Effort	
Penaeid shrimp	C/E Data Assembly (Process and Storage)	
	Commercial C/E Analysis	
Glass shrimp	Sport C/E Analysis	
	Length-Frequency Analysis of Catch	
Sand shrimp	Length-Frequency Analysis of Population	
	Age-Frequency Evaluation of Catch	
Other deep water decapods	Age-Frequency Evaluation of Population	
	Mortality Rates	
	Gear Selectivity Studies	
	Industry mortalities, fish kills	
	Population size and abundance	
	Distribution and Density of Life Stages by Area and Habitat Type	
	Distribution and Density of Life Stages by Environmental Variables	
	General Production Model	
	Production Model from Survey Estimates	
	Yield/Recruit Model	
	Catch Equation Production Model	
	Virtual Population Analysis	
	Prediction Model	
	Virginia Fishery Management Plan	
	ASMFC Fishery Management Plan	
	MAFM Council Fishery Management Plan	

* NEFM Council Fishery Management Plan

STATUS OF KNOWLEDGE FOR VIRGINIA SHELL FISHERIES

	Acceptable Information Available for Management Plan Development	Preliminary Analysis Refinement Necessary	Data Available-No Analysis	No Data
Oysters				
Mahogany Clam				
Hard Clam				
Surf Clam				
Ocean Scallops				
Rangia Clam				
Soft Clam				
Conchs (Wells)				
Bay Scallops				
Stout Razor Clam				
Razor Clam				
Review Literature				
Stock Identification				
Growth Curves				
Reproduction (Fecundity)				
Life Stages Described				
Experimental Tolerances by Life Stages				
Tropic Dynamics of Life Stages				
Catch Sampling Program-Commercial				
Catch Sampling Program-Recreational				
Analysis of Effort				
C/E Data Assembly (Process & Storage)				
Commercial C/E Analysis				
Short C/E Analysis				
Length-Frequency Analysis of Catch				
Length-Frequency Analysis of Population				
Age-Frequency Evaluation of Catch				
Age-Frequency Evaluation of Population				
Mortality Rates				
Gear Selectivity Studies				
Industry mortalities, fish kills				
Population Size and Abundance				
Distribution and Density of Life Stages by Area and Habitat Type				
Distribution and Density of Life Stages by Environmental Variables				
General Production Model				
Production Model from Survey Estimates				
Yield/Recruit Model				
Catch Equation Production Model				
Virtual Population Analysis				
Prediction Model				
Virginia Fishery Management Plan				
ASMFC Fishery Management Plan				
MAFM Council Fishery Management Plan				